

Current Converter

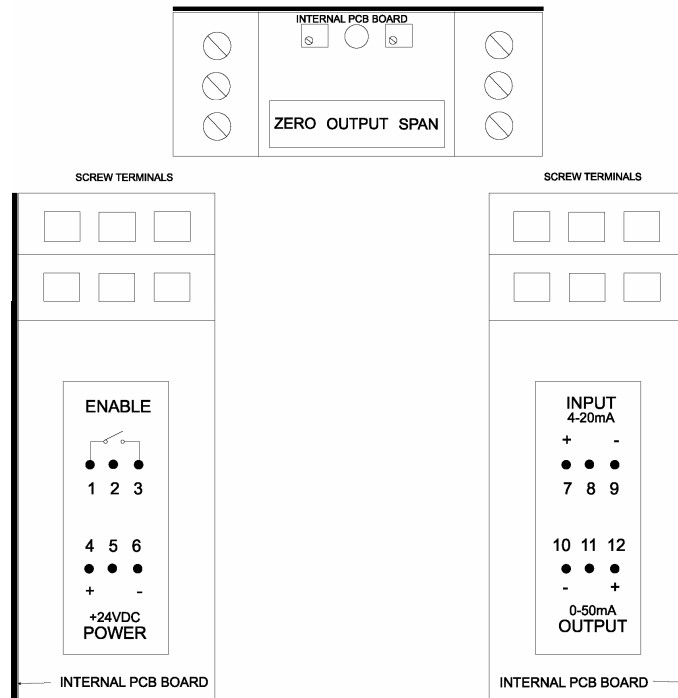
P/N: IC-DR-12

Description: The Current Converter accepts a 24V DC power supply (nominal) and a 4-20mA input signal converting it to a current output. Output is 20-160 mA. Span and zero are user adjustable. A diagnostic LED indicates operational status, glowing green when the load, input signal and power supply are connected. The load should be floating, isolated from ground. The circuit board is conformally coated and the unit is available in a DIN rail mount housing.



Application:
Mobile equipment and industrial automation

Connection Diagram



Note: Connections for IC-DR-14 are shown but are identical for IC-DR-12.

Technical Specifications:

Typical at nominal input voltage and 25 degrees C unless otherwise specified.

Ordering Part Number:	IC-DR-12
Input Specifications:	
<i>Current Input</i>	4-20mA (Other current inputs are available.)
Output Specifications:	
<i>Current Output</i>	20-160mA (Other current output ranges are available on request.)
<i>Response Time</i>	<5 mSec.
<i>Non-linearity</i>	<0.1% without adjustments performed
General Specifications:	
<i>Power Supply</i>	24VDC nominal (9-45VDC operating range) Transient protection is provided.
<i>Power Consumption</i>	Contact Axiomatic.
<i>Reverse Polarity Protection</i>	Provided
<i>Operating Conditions</i>	-40 to 85 degrees C (-40 to 185 degrees F)
<i>Electrical connection</i>	Screw terminals accept 14-24 AWG wire
<i>Enable (enables output through closing a mechanical relay contact)</i>	To enable operation, externally short terminals 1 and 3.
<i>Packaging and Dimensions (W x H x D)</i>	DIN rail mount (75 x 98.5 x 22.5 mm or 2.95 x 3.87 x 0.88 inches) for high profile DIN rail (35 mm) (Other packaging styles are available.)

Adjustments:	<i>Multi-turn trim pots (10 turns)</i>
<i>Zero</i>	CW = increasing Apply 4mA input current and adjust the Zero trimpot to desired output current within range of 6 to 29 mA.
<i>Span</i>	CW = increasing Apply 20mA input current and adjust the Span trimpot to desired maximum current output within range of 116 to 171mA .

CW = clockwise, CCW = counter clockwise

Specifications are subject to update without notice.

Form: TD2307EW-02/20/07